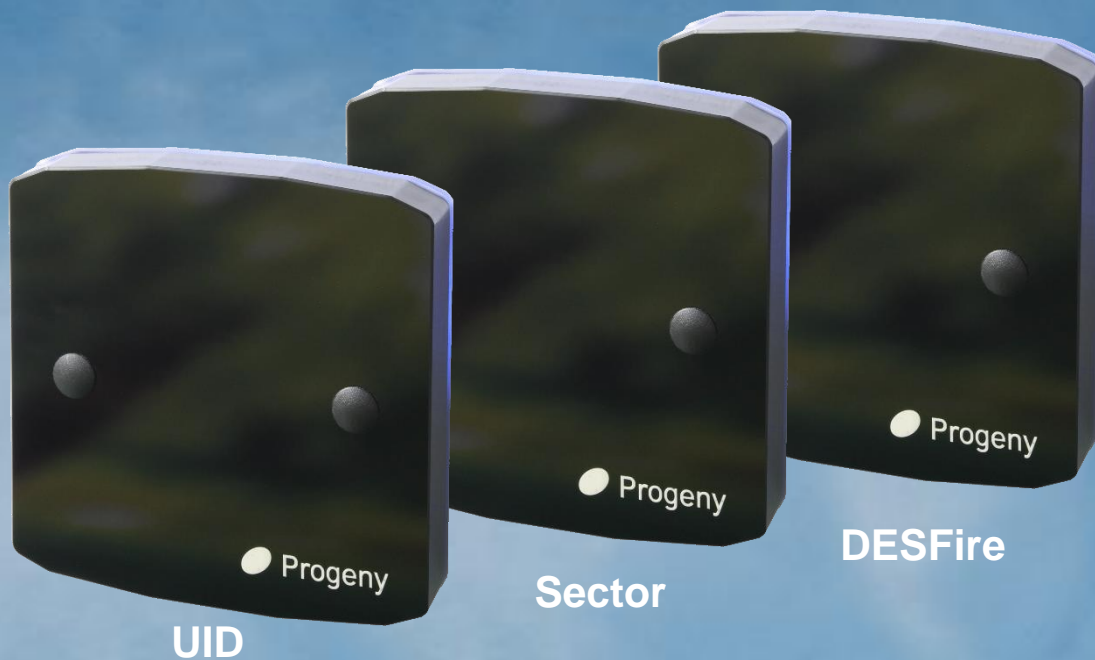


Dark Crystal MIFARE Readers & Credentials



- MIFARE UID
- MIFARE Sector
- MIFARE DESFire
- Internal or external use
- Intuitive light & sound feedback
- Compatible with P4 Systems



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 **Progeny**
Access Control

Dark Crystal MIFARE Readers

The Dark Crystal Reader is a passive RFID (Radio Frequency Identification) reader for use with the Progeny P4 systems. The proximity credential is encoded with an encrypted identification number. This number is transmitted when presented to the Dark Crystal reader. The reader then passes this number on to the control equipment for an access control decision.

The Dark Crystal reader is weather protected and suitable for both indoor and outdoor use.

Switch Plate with Pigtail

The switch plate style use M3.5 mm screws mount to any standard single gang back box, which makes first fix possible.

The switch plate reader can be surface or flush mounted.

Compatibility List

The readers are available in three main types.

Card Type	Reader Type		
	UID	Sector	DESFire
Classic 1K	Yes*	Yes	-
Classic 4K	Yes*	Yes	-
Ultralight	Yes	Yes	-
Plus 1K	Yes*	Yes	-
Plus EV1	Yes*	Yes	-
DESFire EV1	Yes	-	Yes
DESFire EV2	Yes	-	Yes

UID

The UID reader will work with just about any MIFARE cards that conforms to the ISO/EN 14443 protocol standard. This reads the manufactured UID number (sometimes referred to as Card Serial Number CSN). The UID is presented "Little Endian" but can be "Big Endian" on request.

Sector

The Sector Reader is preconfigured to use a specified encryption key to read data from a sector on the MIFARE Card.

DESFire

The DESFire Reader works with the Crystal DESFire credentials. This offers the highest of all security. Crystal DESFire credentials are available as a CR80 ISO thickness card or as a Key Fob to go on a keyring.

Credentials

Crystal DESFire credentials are available in two forms:

- ISO card in a CR80 format.
- Key fob with a loop to hang on a keyring.

The ISO card is credit card sized and is suitable for printing using widely available photo ID printers. Compatible with Dye Sublimation and Re-Transfer Printers.

Specification

Electrical

Operating Voltage Range	8-14 VDC
Peak Current	150mA
Average Current	100mA
Frequency	13.56MHz
Cable Distance (Max)	100m

Environment

Operating Temperature	-20 to 65°C
Operating Humidity	0 to 95%

Dimension (Mounted in mm)

Switch Plate Reader	W 90 x H 90 x D 19
MIFARE ISO Card	W 86 x H 54 x D 0.83

Product Codes

Dark Crystal MIFARE Readers	Code
MIFARE UID (CSN) Reader	4231
MIFARE Classic Sector Reader	4270
MIFARE DESFire Reader	4825
MIFARE Credentials	Code
Progeny Encoded Crystal MIFARE DESFire EV2 ISO Card	4806
Progeny Encoded Crystal MIFARE DESFire EV2 Fob	



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